OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
-	19364.00		
-	22457.00		
-	19364.00		
-	1937.00		
-	156185.00		
-	20,000.00		
ed - 254302.00			

M. A. R. 57 (Rule 116)
Measurement Book

No. B BR-175 30-9-15

249551

Serial No. 1st and final Bill

Name of Work .... From........................ To........................

Name of Contractor of nature of Agency SRI - R. Satheesh (Satya Construction)

Date of commencement of work D.O. Recording. 30.09.2015

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work :	Restorration of Vidyaranyapura Sahakaranagar via Glenic double Road near Canara Bank Layout in Ward no.09, Vidyaranyapura Sub-Dvn.					
	MB. No :	009-15-000037					
	Workorder no :	BB/BTP/BBMP/T-PMT/09/16220/WO/108/ 2014-15-Dt.18-09-2016					
	Estimated Cost Rs	49.70 6ldhs.					
	Date of commencement :	19-09-2016					
	Date of completion :	29-09-2016					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(1)	Earthwork Excavation by manual means in hard soil, involving an average horizontal throw upto 2m and an average lift upto 0.500m, excavated surface levelled and watered neatly dressed, the disposed Earth is levelled neatly after breaking clods complete as per specification complete as per specifications and directions Extra-lift charge of 1m						
	Brought this M.B.P 24958						
	Amount ₹ 652.28 m³ @ 110/m³					₹ 71750.80	
(2)	Removing of B.R. debris dressing and stacking as per						

Serial No. .....
Name of Work .....
Name of Contractor of nature of A
Date of commencement of work ...

Date	Full description, etc, of w
1	2
	directions Eng
(3)	Refilling stone
	as per directions
(4)	Providing and la

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
ed means in hard dry, throw upto 2m and as ed surface levelled and d Earth in se levelled neat as per specification comple g Excava-tion charge of Hon				
de this m13. p 24958				
Item no (1)			652.28 m³ @ 110/m³	71750.80
s and Moving as per				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

249552

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	directions Engineer-in-charge of work.						
	Obtained this m.b. p. 24958						
	Item no (1) =		1120.504 m² @ 60/m²				67230.00
(1)	Refixing stone slabs of dressed and pointed in CM 1:3 as per directions Engineer-in-charge of work						
	Obtained as per Item no. (1) =		1120.504 m² @ 77.50/m²				86838.75
(2)	Providing and laying reinforced cement concrete pipe NP3						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	for cube test including painting ends, and fixing collars with Cement mortar 1:2, including costing all material, labour carriage complete as per specifications and directions of Engineer-Incharge of work.						
						not operated ..	
(5)	Providing stone metal crust 50mm to 100mm thick with pre mix carpet/surface dressing and stacking of old serviceable materials within a lead of 100 mts by manual means including costing all labour						

Serial No. .....
Name of Work .....
Name of Contractor of nature of
Date of commencement of work

Date	Full description, etc, o
1	2
	charges compl Engineer. In-ch
(5)	Providing, laying aggregate to m providing the mix plant cons

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ngth 4	Breadth 5	Depth 6	7	8
and stacy collars with y all material, labour *. and direction of Engineer-				
not operated . .				
mm to 100 mm thick x Carpet surface dressing aterials with a coat nd using all labour				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 249553

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	charges complete as per specifications and directions of Engineer. In-charge of Works						
			Qty as per MB. P 24958				
			10 no. (5) = 2732.504 sq m				12,897.30
(6)	Providing, laying, spreading and compacting graded stone aggregate by wet mix macadam specifications to include processing the material with water at one in mechanical mix plant carriage of mixed material to tipper to site						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Laying in uniform layers Dimpared in dry-base courses Well prepared surface and Compacting with Vibratory Roller to achieve the desired density complete as per Morth specifications and directions of engineer-in-charge Work						
	Ref to MB p.249						
(7)		(4)	558.34				
	Cleaning the Existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks, sweeping with brooms & soft brushes and finally dusting with old gunny bags and or compressed air to Receive the bituminous	(5)	559.00			810550.00	809593.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	treatment including cost of machinery, complete of engineer-in-charge
(8)	Providing and applying Emulsion on prepared as WBM, WMM, including

IT BOOK

Dimensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
to-base course			
with vibratory Roller			
ck as per Shorey			
-charges Work.			
this MB p. 249588			
(5) 558.34			
559.00 m² @ 1450/m²		810550.00	
		809593.00	
surface including			
ther foreign matter			
Sweeping with			
dusting Wind of			
Receive the bituminous			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

249554

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	treatment including cost of all materials, labour, tools & machinery, complete as per specifications & and directions of Engineer-in-charge Work.						
	Carry forward to MB p 249591						
	Total = (5)					4457.53 m² @ 14/m²	62425.42
							65975.00
(8)	Providing and applying primer coat with S.S. bitumen Emulsion on prepared surface of granular base over WBM, WMM, including cleaning of Road surface and						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Spraying primer at the rate of 0.60 kg/ sqm using mechanical means complete as per specifications, norms specified and directions of Engineer-in-charge of work.						
	Qty as per ✱ no. ⑧ = 4712.504 m²						4937.53
							4975
							4965.00
⑨	Providing and laying bituminous macadam on prepared surface using crushed coarse aggregates as per design mix formula for base/ binding course including loading of aggregates with F.E. loader, hot mixing of the aggregate and bitumen in hot mix plant of capacity, transporting						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Ag
Date of commencement of work ....

Date	Full description, etc, of w
1	2
	the mixed mate density, 50/75 m bitumen but exc lead upto lon of machines co and directions of using 100/120 (50-75mm) W

OOK

Depth 6	Contents 7	Reference to last Measurement 8
Sqm using mechanical		
...ing specified		
...		
... no. ④ = 4712.504 m²	c 36/.²	
...n prepared		
... per design		
...including loads		
...of aggregate		
..., transporting		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249555

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	the mixed material in hopper to achieve required density, 50/75 mm compacted thickness with 3.3% bitumen but excluding coating prime/tack coat with lead upto 1km including costing all material, labour, use of machines complete as per specifications, manual specifications and directions of engineer-in-charge work.						
	using 100/120 TPH capacity imp with sensor. paver-hr-6 (50-75mm) with 3.3% VG-30 Bitumen.						
	Orig mbk this mB. p 249554						101486.24
	# no-1 ⑤ 135.634 c 7482.24/-A						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(10)	Providing and applying tack coat on granular base duly cleaned surface with hot bitumen premulsion @ 10 kg/10 m², heating bitumen in boiler fitted with spray set including cartage all material, labour, power, machinery complete as per specifications and direction of Engineer-in-charge of work.						
11)	Providing and laying bituminous concrete 40 mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 t/hr using crushed aggregates						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	of specified grading at 5.4 to 5.6% of mix to worksite, laying with Vibratory and tandem as per morth specifications Repeates as per spec charge of work.
	*) Main Road from (0.00 to 193.30 mts)

REMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
...ect on	granular base duly			
...t hot bitumen premixed ch				
...boiler fitted with spray				
...al, labour, tools, machinery				
...and direction of Engineer-in-				
			(2) 4437.53	
...ng as per ... No.			(5) 4712.50+2	13763.43
			@ 3+31/2	
Concrete 40 mm thick				14608.50
hot mix plant produc				
...ing crushed aggregate				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 249556

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	of specified grading, premixed with bitumen as binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to Worksite, laying with hydrostatic drum Wheeled, Vibratory and tandem Roller to achieve the desired compaction as per morth specification, Clause no- 500.9 Complete in all Respects as per specification and directions of Engineer-in-charge of Works.						
	a) Main Road from Ch 0.00 to 193.30 mts)	1	30.00	(13.4+6.8+6.5)/3	0.04	10.764	
		1	30.00	(6.5+6.5)/2	0.04	7.80	
		1	30.00	(6.5+6.2)/2	0.04	7.62	
						26.18 mt	

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EE 30/9

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(b) Arabindo School Road (0.00 to 147.20 mts)	1	28.00	$\frac{6.2+7.6}{2}$	0.04	1.79	
		1	9.00	9.50	0.04	3.42	
		1	30.00	$\frac{9.5+8.75}{2}$	0.04	10.95	
		1	30.00	$\frac{8.75+10.0}{2}$	0.04	11.25	
		1	6.30	$\frac{10.0+15.5}{2}$	0.04	3.21	
		1	27.70	$\frac{6.0+7.0}{2}$	0.04	7.20	
		1	15.00	$\frac{7.0+7.5}{2}$	0.04	4.35	
		1	30.00	$\frac{7.5+5.8}{2}$	0.04	7.98	
		1	30.00	$\frac{5.8+5.0}{2}$	0.04	6.48	
		1	30.00	$\frac{5.0+6.0}{2}$	0.04	6.60	
		1	14.50	$\frac{6.0+8.0}{2}$	0.04	4.06	
						99.27 mts	

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EE
30/9

Serial No. .....
Name of Work .....
Name of Contractor of nature of Ag
Date of commencement of work ...

Date	Full description, etc, of w
1	2
	(c) Double Road in NCB approach Ro. 4 (0.00 to 324.50

OK

Depth 6	Contents 7	Reference to last Measurement 8
0.04 =	7.39 m³	
0.04 =	3.42	
0.04 =	10.95	
0.04 =	11.25	
0.04 =	3.24	
4	7.20	
4	4.35	
4	7.98	
1	6.48	
1	6.60	
	4.05	
	99.27 m³ 90.00	

CBEC
Verified
EE
30/9

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To..... 249557
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents Avg 7	Reference to last Measurement 8
	(C) Double Road in NCBC approach Ro. 4 (0.00 to 321.50 mts)	1	7.00	$\frac{14.8+6.3}{2}$	0.04 =	2.95	
		1	30.00	$\frac{6.3+5.4}{2}$	0.04 =	7.02	
		1	30.00	$\frac{5.4+6.0}{2}$	0.04 =	6.84	
		1	30.00	$\frac{6.0+5.5}{2}$	0.04 =	6.90	
		1	30.00	$\frac{5.5+6.4}{2}$	0.04 =	7.14	
		1	30.00	$\frac{6.4+6.0}{2}$	0.04	7.44	
		1	30.00	$\frac{6.0+5.9}{2}$	0.04	7.[illegible]	
		1	30.00	$\frac{5.9+6.6}{2}$	0.04	7.80	
						152.20 m³	

CBEC
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EE
30/9

152.20 m³ 152.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Avg		
		1	30.00	$\frac{6.6+6.2}{2}$	0.04 =	7.68	
		1	30.00	$\frac{6.2+6.0}{2}$	0.04 =	7.32	
		1	30.00	$\frac{6.0+5.7}{2}$	0.04 =	6.90	
		3	14.50	$\frac{5.5+5.2}{2}$	0.04 =	3.77	
	Pathward	1	4.00	4.50	0.04 =	0.72	
		1	20.20	10.20	0.04 =	8.24	
		1	10.50	8.50	0.04 =	3.57	
		1	25.90	6.50	0.04 =	6.24	
						196.60 m³	
12)	Lead for Disposal of debris shall be payable as Carriage for water by mechanical means including loading and unloading, for 0.00 to 11.90 km as per the direction of Engineer-in-charge where.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wor
1	2
	Accepted all m-ments with full settlements.
	Certificate ① Certified th- satisfactory ② The Contra-

BOOK

ions		Contents	Reference to last Measurement
readth 5	Depth 6 Avg	7	8
6+6.2 / 2	0.04 =	7.68	
2+6.4 / 2	0.04 =	7.32	
0+5.5 / 2	0.04 =	6.90	
+7.5 / 2	0.04 =	3.77	
.5	0.04 2	0.72	
20	0.04 =	8.24	
55	0.04 =	3.57	
5	0.04 =	6.24 196.64	1200 cft
		196.60 cft	23,59,200
payable at Cuttack			23,59,200.00
oading and unloading,			
h Engineer.			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

249558

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Accepted all measure-ments with full and final settlements.					Total Rs.	49,76,395.76 (49,50,856.40)
	Certificate ① Certified that the contractor has work done satisfactory. ② The Contractor has removed the debris from site						

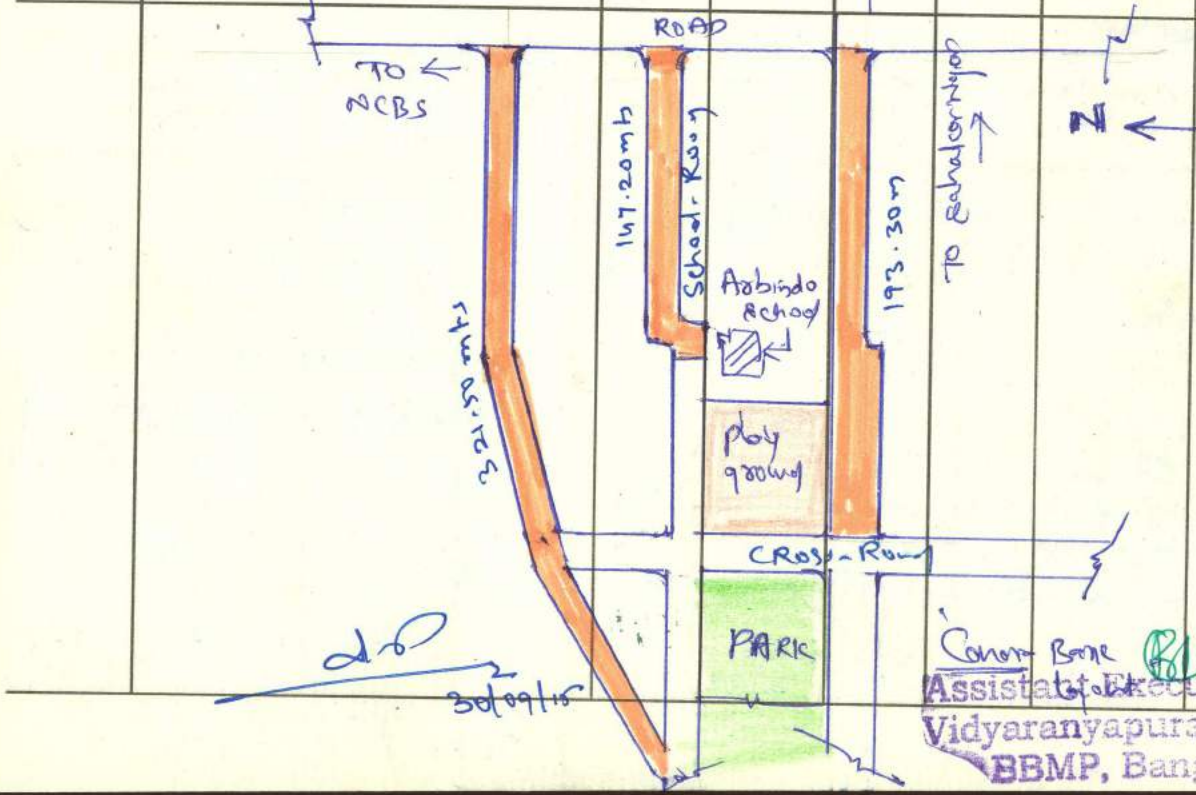
30/09/15

Received 30/9/15

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



do 30/09/15

Assistant Executive Engineer 30/9/15
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

B2-135 30/9/15

Serial No. .....
Name of Work .....
Name of Contractor of nature of A
Date of commencement of work ..

Date	Full description, etc, of
1	2

Audited & Ac
and Rs 3
Accts. Sub
Byatarayanap
BBMP

ENT BOOK

Dimensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8

193.30 m

To Bahadarnagar

Rd

Conc Bone

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

B2-175
30/9/15

M. A. R. 57 (Rule 116)
Measurement Book

No. B

249559

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Audited & Admitted to Rs 4950880-00 4599393-00 and Rs 351507-00 Accts. Supdt. Byatarayanapura Dn. BBMP					IT - 4957.00 VAT - 19803.60 LWF - 495.10 CBF - 495.10 LR - 4950.00 Total Rs 351507-00.	

4/6/16